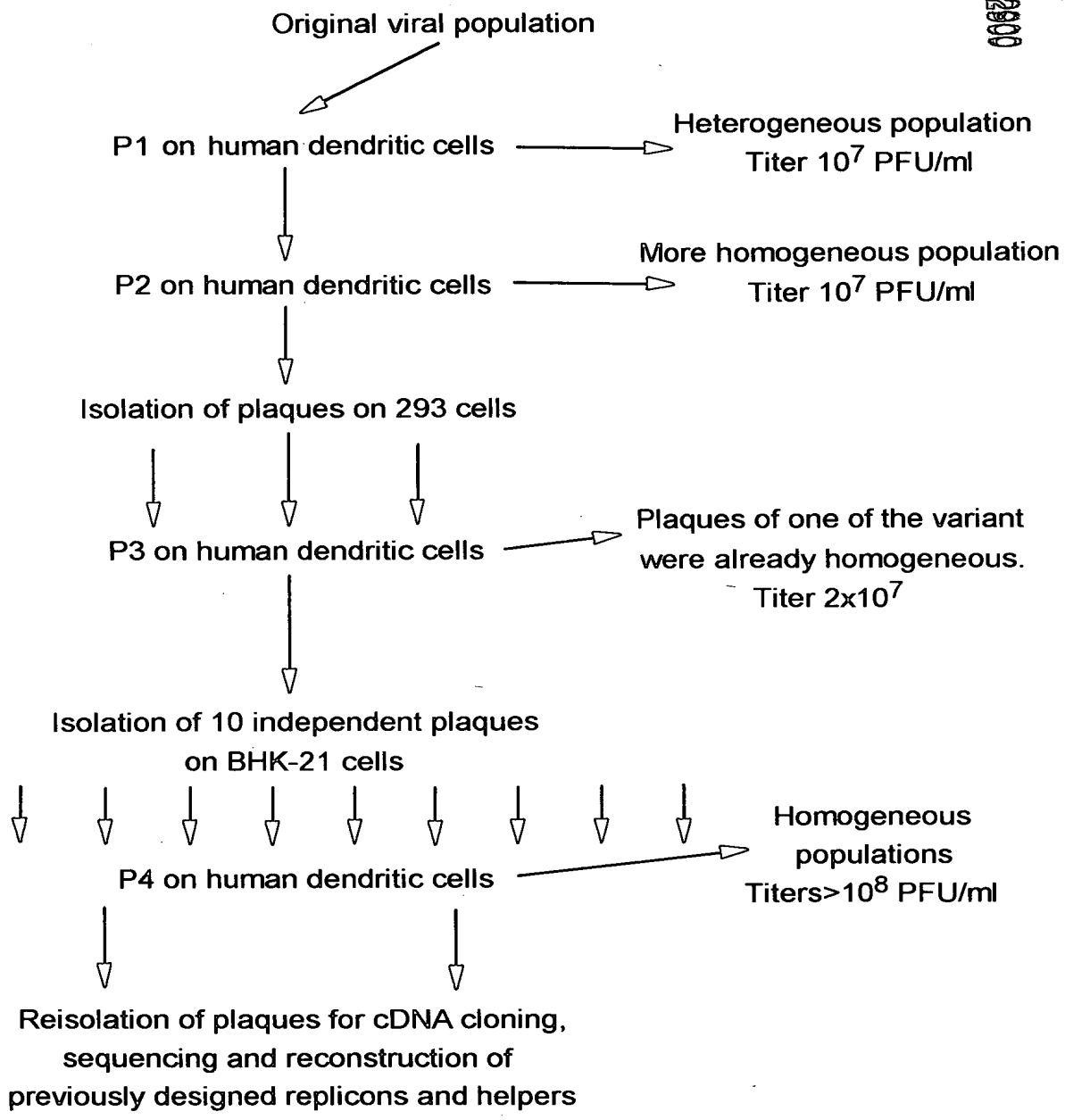
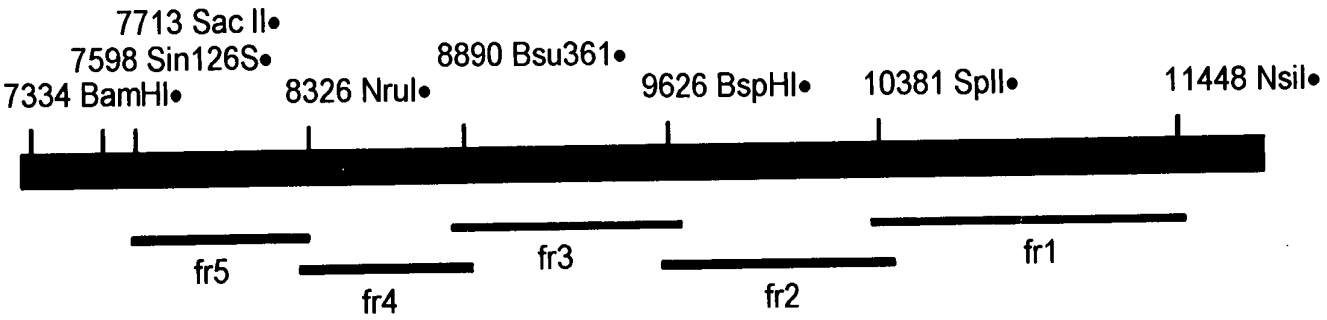


FIG. 1

A)



B)

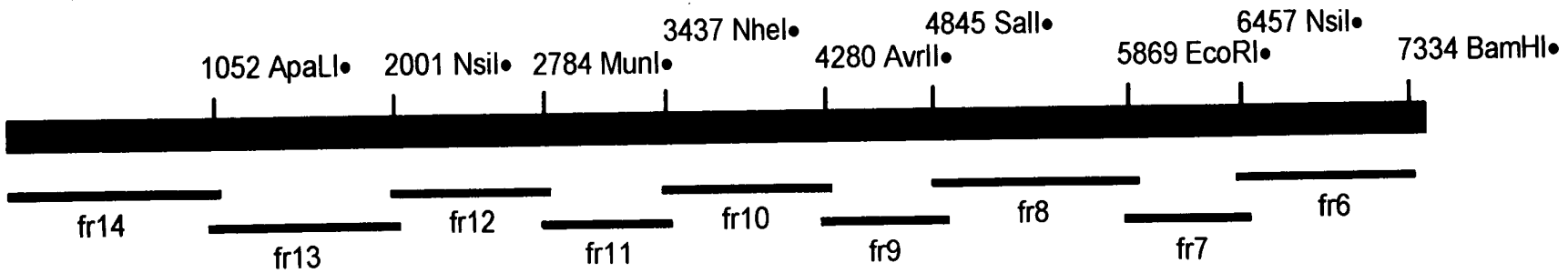


FIG. 2A

ATTGACGGCGTAGTACACACTATTGAATCAAACAGCCGACCAATTGCACTACCATCACAATGGAGAAGCCAGTAG
TAAACGTAGACGTAGACCCCCAGAGTCCGTTTGTCGTGCAACTGCAAAAAAGCTTCCCGCAATTTGAGGTAGTAG
CACAGCAGGTCACTCCAAATGACCATGCTAATGCCAGAGCATTTTCGCATCTGGCCAGTAAACTAATCGAGCTGG
AGGTTCCTACCACAGCGACGATCTTGGACATAGGCAGCGCACCGGCTCGTAGAATGTTTTCCGAGCACCAGTATC
ATTGTGTCTGCCCCATGCGTAGTCCAGAAGACCCGGACCGCATGATGAAATATGCCAGTAAACTGGCGGAAAAAG
CGTGCAAGATTACAAACAAGAACTTGCATGAGAAGATTAAGGATCTCCGGACCGTACTTGATACGCCGGATGCTG
AAACACCATCGCTCTGCTTTCACAACGATGTTACCTGCAACATGCGTGCCGAATATTCCGTCATGCAGGACGTGT
ATATCAACGCTCCCGGAACTATCTATCATCAGGCTATGAAAGGCGTGCGGACCCTGTACTGGATTGGCTTCGACA
CCACCCAGTTCATGTTCTCGGCTATGGCAGGTTCGTACCCTGCGTACAACACCAACTGGGCCGACGAGAAAGTCC
TTGAAGCGCGTAACATCGGACTTTGCAGCACAAAGCTGAGTGAAGGTAGGACAGGAAAATTGTCGATAATGAGGA
AGAAGGAGTTGAAGCCCGGGTCGCGGGTTTATTTCTCCGTAGGATCGACACTTTATCCAGAACACAGAGCCAGCT
TGCAGAGCTGGCATCTTCCATCGGTGTTCCACTTGAATGGAAAGCAGTCGTACACTTGCCGCTGTGATACAGTGG
TGAGTTGCGAAGGCTACGTAGTGAAGAAAATCACCATCAGTCCCGGGATCACGGGAGAAACCGTGGGATACGCGG
TTACACACAATAGCGAGGGCTTCTTGCTATGCAAAGTTACTGACACAGTAAAAGGAGAACGGGTATCGTTCCCTG
TGTGCACGTACATCCCGGCCACCATATGCGATCAGATGACTGGTATAATGGCCACGGATATATCACCTGACGATG
CACAAAAACTTCTGGTTGGGCTCAACCAGCGAATTGTCATTAACGGTAGGACTAACAGGAACACCAACACCATGC
AAAATTACCTTCTGCCGATCATAGCACAAGGGTTCAGCAAATGGGCTAAGGAGCGCAAGGATGATCTTGATAACG
AGAAAATGCTGGGTACTAGAGAACGCAAGCTTACGTACGGCTGCTTGTGGGCGTTTCGCACTAAGAAAGTACATT
CGTTTTATCGCCCACCTGGAACGCAGACCATCGTAAAAGTCCCAGCCTCTTTTAGCGCTTTTCCCATGTCGTCCG
TATGGACGACCTCTTTGCCCATGTCGCTGAGGCAGAAATTGAAACTGGCATTGCAACCAAAGAAGGAGGAAAAAC
TGCTGCAGGTCTCGGAGGAATTAGTCATGGAGGCCAAGGCTGCTTTTGAGGATGCTCAGGAGGAAGCCAGAGCGG
AGAAGCTCCGAGAAGCACTTCCACCATTAGTGGCAGACAAAGGCATCGAGGCAGCCGCAGAAGTTGTCTGCGAAG
TGGAGGGGCTCCAGGCGGACATCGGAGCAGCATTAGTTGAAACCCCGCGCGGTCACGTAAGGATAATACCTCAAG
CAAATGACCGTATGATCGGACAGTATATCGTTGTCTCGCCAAACTCTGTGCTGAAGAATGCCAAACTCGCACCAG
CGCACCCGCTAGCAGATCAGGTTAAGATCATAACACACTCCGGAAGATCAGGAAGGTACGCGGTCGAACCATACG
ACGCTAAAGTACTGATGCCAGCAGGAGGTGCCGTACCATGGCCAGAATTCCTAGCACTGAGTGAGAGCGCCACGT
TAGTGTACAACGAAAGAGAGTTTGTGAACCGCAAACTATACCACATTGCCATGCATGGCCCCGCCAAGAATACAG
AAGAGGAGCAGTACAAGGTTACAAAGGCAGAGCTTGCAGAAACAGAGTACGTGTTTGACGTGGACAAGAAGCGTT
GCGTTAAGAAGGAAGAAGCCTCAGGTCTGTTCCTCTCGGGAGAACTGACCAACCCTCCCTATCATGAGCTAGCTC
TGGAGGGACTGAAGACCCGACCTGCGGTCCCGTACAAGGTCGAAACAATAGGAGTGATAGGCACACCGGGGTCGG
GCAAGTCAGCTATTATCAAGTCAACTGTCACGGCACGAGATCTTGTTACCAGCGGAAAGAAAGAAAATTGTCGCG
AAATTGAGGCCGACGTGCTAAGACTGAGGGGTATGCAGATTACGTCGAAGACAGTAGATTCGGTTATGCTCAACG
GATGCCACAAAGCCGTAGAAGTGCTGTACGTTGACGAAGCGTTCGCGTGCCACGCAGGAGCACTACTTGCCTTGA
TTGCTATCGTCAGGCCCCGCAAGAAGGTAGTACTATGCGGAGACCCCATGCAATGCGGATTCTTCAACATGATGC
AACTAAAGGTACATTTCAATCACCCTGAAAAAGACATATGCACCAAGACATTCTACAAGTATATCTCCCGGCGTT
GCACACAGCCAGTTACAGCTATTGTATCGACACTGCATTACGATGGAAAGATGAAAACCACGAACCCGTGCAAGA
AGAACATTGAAATCGATATTACAGGGGCCACAAAGCCGAAGCCAGGGGATATCATCCTGACATGTTTCCGCGGGT
GGGTTAAGCAATTGCAAATCGACTATCCCGGACATGAAGTAATGACAGCCGCGGCCTCACAAGGGCTAACCAGAA
AAGGAGTGTATGCCGTCCGGCAAAAAGTCAATGAAAACCCACTGTACGCGATCACATCAGAGCATGTGAACGTGT
TGCTCACCCGCACTGAGGACAGGCTAGTGTGGAAAACCTTGCAGGGCGACCCATGGATTAAGCAGCTCACTAACA
TACCTAAAGGAAACTTTCAGGCTACTATAGAGGACTGGGAAGCTGAACACAAGGGAATAATTGCTGCAATAAACA
GCCCCACTCCCCGTGCCAATCCGTTCAGCTGCAAGACCAACGTTTGCTGGGCGAAAGCATTGGAACCGATACTAG
CCACGGCCGGTATCGTACTTACCGGTTGCCAGTGGAGCGAACTGTTCCCACAGTTTGCGGATGACAAACCACATT
CGGCCATTTACGCCTTAGACGTAATTTGCATTAAGTTTTTCGGCATGGACTTGACAAGCGGACTGTTTTCTAAAC
AGAGCATCCCACTAACGTACCATCCCGCCGATTCAGCGAGGCCGGTAGCTCATTGGGACAACAGCCCAGGAACCC
GCAAGTATGGGTACGATCACGCCATTGCCGCCGAACTCTCCCGTAGATTTCCGGTGTTCCAGCTAGCTGGGAAGG
GCACACAACTTGATTTGCAGACGGGGAGAACCAGAGTTATCTCTGCACAGCATAACCTGGTCCCGGTGAACCGCA
ATCTTCCTCACGCCTTAGTCCCCGAGTACAAGGAGAAGCAACCCGGCCCGGTCGAAAAATTCTTGAACCAGTTCA
AACACCACTCAGTACTTGTGGTATCAGAGGAAAAAATTGAAGCTCCCCGTAAGAGAATCGAATGGATCGCCCCGA
TTGGCATAGCCGGTGCAGATAAGAACTACAACCTGGCTTTCGGGTTTCCGCCGCAGGCACGGTACGACCTGGTGT
TCATCAACATTGGAACTAAATACAGAAACCACCACTTTCAGCAGTGCGAAGACCATGCGGCGACCTTAAAAACCC
TTTCGCGTTCGGCCCTGAATTGCCTTAACCCAGGAGGCACCCTCGTGGTGAAGTCCTATGGCTACGCCGACCGCA
ACAGTGAGGACGTAGTCACCGCTCTTGCCAGAAAGTTTGTCAGGGTGTCTGCAGCGAGACCAGATTGTGTCTCAA

FIG. 2B-1

GCAATACAGAAATGTACCTGATTTTCCGACAACTAGACAACAGCCGTACACGGCAATTCACCCCGCACCATCTGA
ATTGCGTGATTTCGTCCGTGTATGAGGGTACAAGAGATGGAGTTGGAGCCGCGCCGTCATACCGCACCAAAAGGG
AGAATATTGCTGACTGTCAAGAGGAAGCAGTTGTCAACGCAGCCAATCCGCTGGGTAGACCAGGCGAAGGAGTCT
GCCGTGCCATCTATAAACGTTGGCCGACCAGTTTTACCGATTCAGCCACGGAGACAGGCACCGCAAGAATGACTG
TGTGCCTAGGAAAGAAAGTGATCCACGCGGTCGGCCCTGATTTCCGGAAGCACCCAGAAGCAGAAGCCTTGAAAT
TGCTACAAAACGCCTACCATGCAGTGGCAGACTTAGTAAATGAACATAACATCAAGTCTGTCGCCATTCCACTGC
TATCTACAGGCATTTACGCAGCCGGAAAAGACCGCCTTGAAGTATCACTTAACTGCTTGACAACCGCGCTAGACA
GAACTGACGCGGACGTAACCATCTATTGCCTGGATAAGAAGTGGAAGGAAAGAATCGACGCGGCACTCCAACTTA
AGGAGTCTGTAACAGAGCTGAAGGATGAAGATATGGAGATCGACGATGAGTTAGTATGGATCCATCCAGACAGTT
GCTTGAAGGGAAGAAAGGGATTCAGTACTACAAAAGGAAAATTGTATTCGTACTTCGAAGGCACCAAATTCCATC
AAGCAGCAAAAGACATGGCGGAGATAAAGGTCCTGTTCCCTAATGACCAGGAAAGTAATGAACAACTGTGTGCCT
ACATATTGGGTGAGACCATGGAAGCAATCCGCGAAAAGTGCCCGGTCGACCATAACCCGTCGTCTAGCCCGCCCA
AAACGTTGCCGTGCCTTTGCATGTATGCCATGACGCCAGAAAGGGTCCACAGACTTAGAAGCAATAACGTCAAAG
AAGTTACAGTATGCTCCTCCACCCCCCTTCCTAAGCACAAAATTAAGAATGTTCAGAAGGTTCAGTGCACGAAAG
TAGTCCTGTTTAATCCGCACACTCCCGCATTCGTTCCCGCCCGTAAGTACATAGAAGTGCCAGAACAGCCTACCG
CTCCTCCTGCACAGGCCGAGGAGGCCCCCGAAGTTGTAGCGACACCGTCACCATCTACAGCTGATAACACCTCGC
TTGATGTCACAGACATCTCACTGGATATGGATGACAGTAGCGAAGGCTCACTTTTTTCGAGCTTTAGCGGATCGG
ACAACTCTATTACTAGTATGGACAGTTGGTCGTCAGGACCTAGTTCACTAGAGATAGTAGACCGAAGGCAGGTGG
TGGTGGCTGACGTTCATGCCGTCCAAGAGCCTGCCCCTATTCCACCGCCAAGGCTAAAGAAGATGGCCCGCCTGG
CAGCGGCTAGAAAAGAGCCCACTCCACCGGCAAGCAATAGCTCTGAGTCCCTCCACCTCTCTTTTGGTGGGGTAT
CCATGTCCCTCGGATCAATTTTCGACGGAGAGACGGCCCGCCAGGCAGCGGTACAACCCCTGGCAACAGGCCCCA
CGGATGTGCCTATGTCTTTCGGATCGTTTTCCGACGGAGAGATTGATGAGCTGAGCCGCAGAGTAACTGAGTCCG
AACCCGTCCTGTTTGGATCATTTGAACCGGGCGAAGTGAACTCAATTATATCGTCCCGATCAGCCGTATCTTTTC
CACTACGCAAGCAGAGACGTAGACGCAGGAGCAGGAGGACTGAATACTGACTAACCGGGGTAGGTGGGTACATAT
TTTCGACGGACACAGGCCCTGGGCACTTGCAAAAGAAGTCCGTTCTGCAGAACCAGCTTACAGAACCGACCTTGG
AGCGCAATGTCCTGGAAAGAATTCATGCCCCGGTGCTCGACACGTCGAAAGAGGAACAACTCAAACTCAGGTACC
AGATGATGCCCACCGAAGCCAACAAAAGTAGGTACCAGTCTCGTAAAGTAGAAAATCAGAAAGCCATAACCACTG
AGCGACTACTGTCAGGACTACGACTGTATAACTCTGCCACAGATCAGCCAGAATGCTATAAGATCACCTATCCGA
AACCATTGTACTCCAGTAGCGTACCGGCGAACTACTCCGATCCACAGTTCGCTGTAGCTGTCTGTAACAACTATC
TGCATGAGAACTATCCGACAGTAGCATCTTATCAGATTACTGACGAGTACGATGCTTACTTGGATATGGTAGACG
GGACAGTCGCCTGCCTGGATACTGCAACCTTCTGCCCCGCTAAGCTTAGAAGTTACCCGAAAAAACATGAGTATA
GAGCCCCGAATATCCGCAGTGCGGTTCCATCAGCGATGCAGAACACGCTACAAAATGTGCTCATTGCCGCAACTA
AAAGAAATTGCAACGTCACGCAGATGCGTGAACTGCCAACACTGGACTCAGCGACATTCAATGTCGAATGCTTTC
GAAAATATGCATGTAATGACGAGTATTGGGAGGAGTTCGCTCGGAAGCCAATTAGGATTACCACTGAGTTTGTCA
CCGCATATGTAGCTAGACTGAAAGGCCCTAAGGCCGCCGCACTATTTGCAAAGACGTATAATTTGGTCCCATTGC
AAGAAGTGCCTATGGATAGATTCGTCATGGACATGAAAAGGGACGTGAAAGTTACACCAGGCACGAAACACACAG
AAGAAAGACCGAAAGTACAAGTGATACAAGCCGCAGAACCCCTGGCGACTGCTTACTTATGCGGGATTCACCGGG
AATTAGTGCGTAGGCTTACGGCCGTCTTGCTTCCAAACATTCACACGCTTTTTGACATGTCGGCGGAGGATTTTG
ATGCAATCATAGCAGAACACTTCAAGCAAGGCGACCCGGTACTGGAGACGGATATCGCATCATTCGACAAAAGCC
AAGACGACGCTATGGCGTTAACCGGTCTGATGATCTTGGAGGACCTGGGTGTGGATCAACCACTACTCGACTTGA
TCGAGTGCGCCTTTGGAGAAATATCATCCACCCATCTACCTACGGGTACTCGTTTTAAATTCGGGGCGATGATGA
AATCCGGAATGTTCCTCACACTTTTTGTCAACACAGTTTTGAATGTCGTTATCGCCAGCAGAGTACTAGAAGAGC
GGCTTAAAACGTCCAGATGTGCAGCGTTCATTGGCGACGACAACATCATACATGGAGTAGTATCTGACAAAGAAA
TGGCTGAGAGGTGCGCCACCTGGCTCAACATGGAGGTTAAGATCATCGACGCAGTCATCGGTGAGAGACCACCTT
ACTTCTGCGGCGGATTTATCTTGCAAGATTCGGTTACTTCCACAGCGTGCCGCGTGGCGGACCCcctgaaaaggc
tgtttaagttgggtaaaccgctcccagccgacgacgagcaagacgaagacagaagacgcgctctgctagatgaaa
caaaggcgtggtttagagtaggtataacaggcactttagcagtggccgtgacgacccggtatgaggtagacaata
ttacacctgtcctactggcattgagaacttttgcccagagcaaaagagcattccaagccatcagaggggaaataa
agcatctctacggtggtcctaaatagtcagcatagtacatttcatctgactaatactacaacaccaccaccatga
atagaggattctttaacatgctcggccgccgcccctttcccggcccccactgccatgtggaggccgcggAGAAGGA
GGCAGGCGGCCCCGATGCCTGCCCGCAACGGGCTGGCTTCTCAAATCCAGCAACTGACCACAGCCGTCAGTGCCC
TAGTCATTGGACAGGCAACTAGACCTCAACCCCCACGTCCACGCCCGCCACCGCGCCAGAAGAAGCAGGCGCCCA
AGCAACCACCGAAGCCGAAGAAACCAAAAACGCAGGAGAAGAAGAAGAAGCAACCTGCAAAACCCAAACCCGGAA
AGAGACAGCGCATGGCACTTAAGTTGGAGGCCGACAGATCGTTCGACGTCAAGAACGAGGACGGAGATGTCATCG
GGCACGCACTGGCCATGGAAGGAAAGGTAATGAAACCTCTGCACGTGAAAGGAACCATCGACCACCCTGTGCTAT
CAAAGCTCAAATTTACCAAGTCGTCAGCATACGACATGGAGTTCGCACAGTTGCCAGTCAACATGAGAAGTGAGG
CATTCACCTACACCAGTGAACACCCCGAAGGATTCTATAACTGGCACCACGGAGCGGTGCAGTATAGTGGAGGTA
GATTTACCATCCCTCGCGGAGTAGGAGGCAGAGGAGACAGCGGTCGTCCGATCATGGATAACTCCGGTCgGGTTG

FIG. 2C-2

TCGCGATAGTCCTCGGTGGAGCTGATGAAGGAACACGAACTGCCCTTTCGGTCGTCACCTGGAATAGTAAAGGGA
AGACAATTAAGACGACCCCGGAAGGGACAGAAGAGTGGTCCGCAGCACCACTGGTCACGGCAATGTGTTTGCTCG
GAAATGTGAGCTTCCCATGCGACCGCCCGCCCACATGCTATACCCGCGAACCTTCCAGAGCCCTCGACATCCTTG
AAGAGAACGTGAACCATGAGGCCTACGATACCCTGCTCAATGCCATATTGCGGTGCGGATCGTCTGGCAGAAGCA
AAAGAAGCGTCACTGACGACTTTACCCTGACCAGCCCCTACTTGGGCACATGCTCGTACTGCCACCATACTGAAC
CGTGCTTCAGCCCTGTTAAGATCGAGCAGGTCTGGGACGAAGCGGACGATAACACCATACGCATACAGACTTCCG
CCCAGTTTGGATACGACCAAAGCGGAGCAGCAAGCGCAAACAAGTACCGCTACATGTCGCTTAAGCAGGATCACA
CCGTTAAAGAAGGCACCATGGATGACATCAAGATTAGCACCTCAGGACCGTGTAGAAGGCTTAGCTACAAAGGAT
ACTTTCTCCTCGCAAAATGCCCTCCAGGGGACAGCGTAACGGTTAGCATAGTGAGTAGCAACTCAGCAACGTCAT
GTACACTGGCCCGCAAGATAAAACCAAAATTCGTGGGACGGGAAAAATATGATCTACCTCCCGTTCACGGTAAAA
AAATTCCTTGCACAGTGTACGACCGTCTGAAAGGAACAACTGCAGGCTACATCACTATGCACAGGCCGGGACCGC
ACGCTTATACATCCTACCTGGAAGAATCATCAGGGAAAGTTTACGCAAAGCCGCCATCTGGGAAGAACATTACGT
ATGAGTGCAAGTGCGGCGACTACAAGACCAGAACCGTTTCGACCCGCACCGAAATCACTGGTTGCACCGCCATCA
AGCAGTGCGTCGCCTATAAGAGCGACCAAACGAAGTGGGTCTTCAACTCACCGGACTTGATCAGACATGACGACC
ACACGGCCCAAGGGAAATTGCATTTGCCTTTCAAGTTGATCCCGAGTACCTGCATGGTCCCTGTTGCCCACGCGC
CGAATGTAATACATGGCTTTAAACACATCAGCCTCCAATTAGATACAGACCACTTGACATTGCTCACCACCAGGA
GACTAGGGGCAAACCCGGAACCAACCACTGAATGGATCGTCGGAAAGACGGTCAGAAACTTCACCGTCGACCGAG
ATGGCCTGGAATACATATGGGGAAATCATGAGCCAGTGAGGGTCTATGCCCAAGAGTCAGCACCAGGAGACCCTC
ACGGATGGCCACACGAAATAGTACAGCATTACTACCATCGCCATCCTGTGTACACCATCTTAGCCGTCGCATCAG
CTACCGTGGCGATGATGATTGGCGTAACTGTTGCAGTGTTATGTGCCTGTAAAGCGCGCCGTGAGTGCCTGACGC
CATACGCCCTGGCCCCAAACGCCGTAATCCCAACTTCGCTGGCACTCTTGTGCTGCGTTAGGTCGGCCAATGCTG
AAACGTTCACCGAGACCATGAGTTACTTGTGGTCGAACAGTCAGCCGTTCTTCTGGGTCCAGTTGTGCATACCTT
TGGCCGCTTTCATCGTTCTAATGCGCTGCTGCTCCTGCTGCCTGCCTTTTTTAGTGGTTGCCGGCGCCTACCTGG
CGAAGGTAGACGCCTACGAACATGCGACCACTGTTCCAAATGTGCCACAGATACCGTATAAGGCACTTGTTGAAA
GGGCAGGGTATGCCCCGCTCAATTTGGAGATCACTGTCATGTCCTCGGAGGTTTTGCCTTCCACCAACCAAGAGT
ACATTACCTGCAAATTCACCACTGTGGTCCCCTCCCCAAAAATCAAATGCTGCGGCTCCTTGGAATGTCAGCCGG
CCGTTCATGCAGACTATACCTGCAAGGTCTTCGGAGGGGTCTACCCCTTTATGTGGGGAGGAGCGCAATGTTTTT
GCGACAGTGAGAACAGCCAGATGAGTGAGGCGTACGTCGAACTGTCAGCAGATTGCGCGTCTGACCACGCGCAGG
CGATTAAGGTGCACACTGCCGCGATGAAAGTAGGACTGCGTATAGTGTACGGGAACACTACCAGTTTCCTAGATG
TGTACGTGAACGGAGTCACACCAGGAACGTCTAAAGACTTGAAAGTCATAGCTGGACCAATTTCAGCATCGTTTA
CGCCATTCGATCATAAGGTCGTTATCCATCGCGGCCTGGTGTACAACTATGACTTCCCGGAATATGGAGCGATGA
AACCAGGAGCGTTTGGAGACATTCAAGCTACCTCCTTGACTAGCAAGGATCTCATCGCCAGCACAGACATTAGGC
TACTCAAGCCTTCCGCCAAGAACGTGCATGTCCCGTACACGCAGGCCGCATCAGGATTTGAGATGTGGAAAAACA
ACTCAGGCCGCCCACTGCAGGAAACCGCACCTTTCGGGTGTAAGATTGCAGTAAATCCGCTCCGAGCGGTGGACT
GTTCATACGGGAACATTCCCATTTCTATTGACATCCCGAACGCTGCCTTTATCAGGACATCAGATGCACCACTGG
TCTCAACAGTCAAATGTGAAGTCAGTGAGTGCACTTATTCAGCAGACTTCGGCGGGATGGCCACCCTGCAGTATG
TATCCGACCGCGAAGGTCAATGCCCCGTACATTCGCATTCGAGCACAGCAACTCTCCAAGAGTCGACAGTACATG
TCCTGGAGAAAGGAGCGGTGACAGTACACTTTAGCACCGCGAGTCCACAGGCGAACTTTATCGTATCGCTGTGTG
GGAAGAAGACAACATGCAATGCAGAATGTAAACCACCAGCTGACCATATCGTGAGCACCCCGCACAAAAATGACC
AAGAATTTCAAGCCGCCATCTCAAAAACATCATGGAGTTGGCTGTTTGCCCTTTTCGGCGGCGCCTCGTCGCTAT
TAATTATAGGACTTATGATTTTTGCTTGCAGCATGATGCTGACTAGCACACGAAGATGACCGCTACGCCCCAATG
ATCCGACCAGCAAAACTCGATGTACTTCCGAGGAACTGATGTGCATAATGCATcaggctggtacattagatcccc
gcttaccgcgggcaatatagcaacactaaaaactcgatgtacttccgaggaagcgcagtgcataatgctgcgcag
tgttgccacataaccactatattaaccatttatctagcggacgccaaaaactcaatgtatttctgaggaagcgtg
gtgcataatgccacgcagcgtctgcataacttttattatttcttttattaatcaacaaaattttgtttttaacat
ttc

FIG. 2B-3

ATTGACGGCGTAGTACACACTATTGAATCAAACAGCCGACCAATTGCACTACCATCACAATGGAGAAGCCAGTAG
TAAACGTAGACGTAGACCCCCAGAGTCCGTTTGTCGTGCAACTGCAAAAAAGCTTCCCGCAATTTGAGGTAGTAG
CACAGCAGGTCACTCCAAATGACCATGCTAATGCCAGAGCATTTTCGCATCTGGCCAGTAAACTAATCGAGCTGG
AGGTTCCTACCACAGCGACGATCTTGGACATAGGCAGCGCACCGGCTCGTAGAATGTTTTCCGAGCACCAGTATC
ATTGTGTCTGCCCCATGCGTAGTCCAGAAGACCCGGACCGCATGATGAAATATGCCAGTAAACTGGCGGAAAAAG
CGTGCAAGATTACAAACAAGAACTTGCATGAGAAGATTAAGGATCTCCGGACCGTACTTGATACGCCGGATGCTG
AAACACCATCGCTCTGCTTTCACAACGATGTTACCTGCAACATGCGTGCCGAATATTCCGTCATGCAGGACGTGT
ATATCAACGCTCCCGGAACTATCTATCATCAGGCTATGAAAGGCGTGCGGACCCTGTACTGGATTGGCTTCGACA
CCACCCAGTTCATGTTCTCGGCTATGGCAGGTTCGTACCCTGCGTACAACACCAACTGGGCCGACGAGAAAGTCC
TTGAAGCGCGTAACATCGGACTTTGCAGCACAAAGCTGAGTGAAGGTAGGACAGGAAAATTGTCGATAATGAGGA
AGAAGGAGTTGAAGCCCGGGTCGCGGGTTTATTTCTCCGTAGGATCGACACTTTATCCAGAACACAGAGCCAGCT
TGCAGAGCTGGCATCTTCCATCGGTGTTCCACTTGAATGGAAAGCAGTCGTACACTTGCCGCTGTGATACAGTGG
TGAGTTGCGAAGGCTACGTAGTGAAGAAAATCACCATCAGTCCCGGGATCACGGGAGAAACCGTGGGATACGCGG
TTACACACAATAGCGAGGGCTTCTTGCTATGCAAAGTTACTGACACAGTAAAAGGAGAACGGGTATCGTTCCCTG
TGTGCACGTACATCCCGGCCACCATATGCGATCAGATGACTGGTATAATGGCCACGGATATATCACCTGACGATG
CACAAAAACTTCTGGTTGGGCTCAACCAGCGAATTGTCATTAACGGTAGGACTAACAGGAACACCAACACCATGC
AAAATTACCTTCTGCCGATCATAGCACAAGGGTTCAGCAAATGGGCTAAGGAGCGCAAGGATGATCTTGATAACG
AGAAAATGCTGGGTACTAGAGAACGCAAGCTTACGTACGGCTGCTTGTGGGCGTTTCGCACTAAGAAAGTACATT
CGTTTTATCGCCCACCTGGAACGCAGACCATCGTAAAAGTCCCAGCCTCTTTTAGCGCTTTTCCCATGTCGTCCG
TATGGACGACCTCTTTGCCCATGTCGCTGAGGCAGAAATTGAAACTGGCATTGCAACCAAAGAAGGAGGAAAAAC
TGCTGCAGGTCTCGGAGGAATTAGTCATGGAGGCCAAGGCTGCTTTTGAGGATGCTCAGGAGGAAGCCAGAGCGG
AGAAGCTCCGAGAAGCACTTCCACCATTAGTGGCAGACAAAGGCATCGAGGCAGCCGCAGAAGTTGTCTGCGAAG
TGGAGGGGCTCCAGGCGGACATCGGAGCAGCATTAGTTGAAACCCCGCGCGGTCACGTAAGGATAATACCTCAAG
CAAATGACCGTATGATCGGACAGTATATCGTTGTCTCGCCAAACTCTGTGCTGAAGAATGCCAAACTCGCACCAG
CGCACCCGCTAGCAGATCAGGTTAAGATCATAACACACTCCGGAAGATCAGGAAGGTACGCGGTCGAACCATACG
ACGCTAAAGTACTGATGCCAGCAGGAGGTGCCGTACCATGGCCAGAATTCCTAGCACTGAGTGAGAGCGCCACGT
TAGTGTACAACGAAAGAGAGTTTGTGAACCGCAAACTATACCACATTGCCATGCATGGCCCCGCCAAGAATACAG
AAGAGGAGCAGTACAAGGTTACAAAGGCAGAGCTTGCAGAAACAGAGTACGTGTTTGACGTGGACAAGAAGCGTT
GCGTTAAGAAGGAAGAAGCCTCAGGTCTGTTCCTCTCGGGAGAACTGACCAACCCTCCCTATCATGAGCTAGCTC
TGGAGGGACTGAAGACCCGACCTGCGGTCCCGTACAAGGTCGAAACAATAGGAGTGATAGGCACACCGGGGTCGG
GCAAGTCAGCTATTATCAAGTCAACTGTCACGGCACGAGATCTTGTTACCAGCGGAAAGAAAGAAAATTGTCGCG
AAATTGAGGCCGACGTGCTAAGACTGAGGGGTATGCAGATTACGTCGAAGACAGTAGATTCGGTTATGCTCAACG
GATGCCACAAAGCCGTAGAAGTGCTGTACGTTGACGAAGCGTTCGCGTGCCACGCAGGAGCACTACTTGCCTTGA
TTGCTATCGTCAGGCCCCGCAAGAAGGTAGTACTATGCGGAGACCCCATGCAATGCGGATTCTTCAACATGATGC
AACTAAAGGTACATTTCAATCACCCTGAAAAAGACATATGCACCAAGACATTCTACAAGTATATCTCCCGGCGTT
GCACACAGCCAGTTACAGCTATTGTATCGACACTGCATTACGATGGAAAGATGAAAACCACGAACCCGTGCAAGA
AGAACATTGAAATCGATATTACAGGGGCCACAAAGCCGAAGCCAGGGGATATCATCCTGACATGTTTCCGCGGGT
GGGTTAAGCAATTGCAAATCGACTATCCCGGACATGAAGTAATGACAGCCGCGGCCTCACAAGGGCTAACCAGAA
AAGGAGTGTATGCCGTCCGGCAAAAAGTCAATGAAAACCCACTGTACGCGATCACATCAGAGCATGTGAACGTGT
TGCTCACCCGCACTGAGGACAGGCTAGTGTGGAAAACCTTGCAGGGCGACCCATGGATTAAGCAGCTCACTAACA
TACCTAAAGGAAACTTTCAGGCTACTATAGAGGACTGGGAAGCTGAACACAAGGGAATAATTGCTGCAATAAACA
GCCCCACTCCCCGTGCCAATCCGTTCAGCTGCAAGACCAACGTTTGCTGGGCGAAAGCATTGGAACCGATACTAG
CCACGGCCGGTATCGTACTTACCGGTTGCCAGTGGAGCGAACTGTTCCCACAGTTTGCGGATGACAAACCACATT
CGGCCATTTACGCCTTAGACGTAATTTGCATTAAGTTTTTCGGCATGGACTTGACAAGCGGACTGTTTTCTAAAC
AGAGCATCCCACTAACGTACCATCCCGCCGATTCAGCGAGGCCGGTAGCTCATTGGGACAACAGCCCAGGAACCC
GCAAGTATGGGTACGATCACGCCATTGCCGCCGAACTCTCCCGTAGATTTCCGGTGTTCCAGCTAGCTGGGAAGG
GCACACAACTTGATTTGCAGACGGGGAGAACCAGAGTTATCTCTGCACAGCATAACCTGGTCCCGGTGAACCGCA
ATCTTCCTCACGCCTTAGTCCCCGAGTACAAGGAGAAGCAACCCGGCCCGGTCGAAAAATTCTTGAACCAGTTCA
AACACCACTCAGTACTTGTGGTATCAGAGGAAAAAATTGAAGCTCCCCGTAAGAGAATCGAATGGATCGCCCCGA
TTGGCATAGCCGGTGCAGATAAGAACTACAACCTGGCTTTCGGGTTTCCGCCGCAGGCACGGTACGACCTGGTGT
TCATCAACATTGGAACTAAATACAGAAACCACCACTTTCAGCAGTGCGAAGACCATGCGGCGACCTTAAAAACCC
TTTCGCGTTCGGCCCTGAATTGCCTTAACCCAGGAGGCACCCTCGTGGTGAAGTCCTATGGCTACGCCGACCGCA
ACAGTGAGGACGTAGTCACCGCTCTTGCCAGAAAGTTTGTCAGGGTGTCTGCAGCGAGACCAGATTGTGTCTCAA

FIG. 2C-1

GCAATACAGAAATGTACCTGATTTTCCGACAACTAGACAACAGCCGTACACGGCAATTCACCCCGCACCATCTGA
ATTGCGTGATTTCGTCCGTGTATGAGGGTACAAGAGATGGAGTTGGAGCCGCGCCGTCATACCGCACCAAAAGGG
AGAATATTGCTGACTGTCAAGAGGAAGCAGTTGTCAACGCAGCCAATCCGCTGGGTAGACCAGGCGAAGGAGTCT
GCCGTGCCATCTATAAACGTTGGCCGACCAGTTTTACCGATTCAGCCACGGAGACAGGCACCGCAAGAATGACTG
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CATTCACCTACACCAGTGAACACCCCGAAGGATTCTATAACTGGCACCACGGAGCGGTGCAGTATAGTGGAGGTA
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FIG. 2B-2

TCGCGATAGTCCTCGGTGGAGCTGATGAAGGAACACGAACTGCCCTTTCGGTCGTCACCTGGAATAGTAAAGGGA
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ttc

FIG. 2C-3

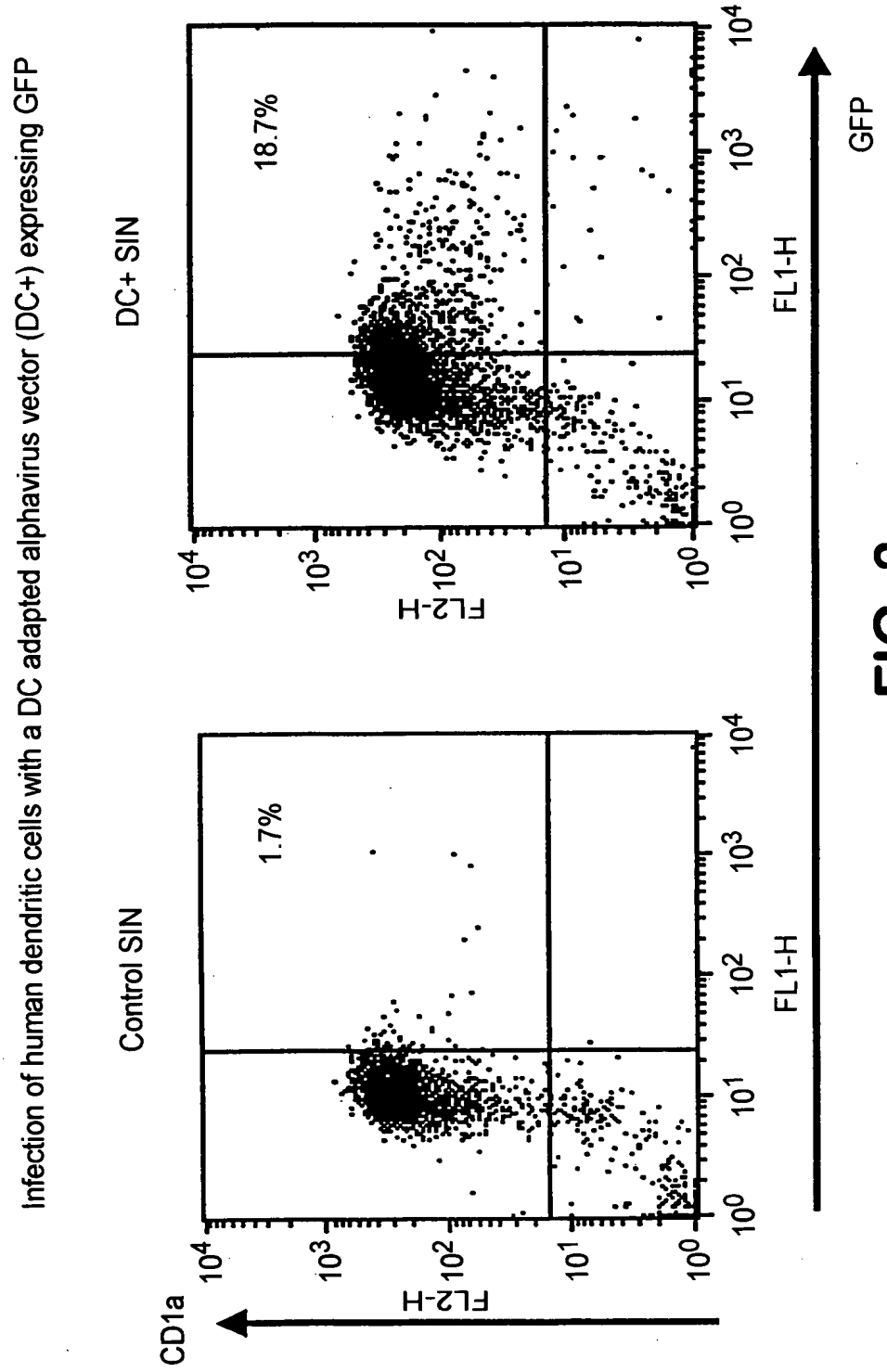


FIG. 3

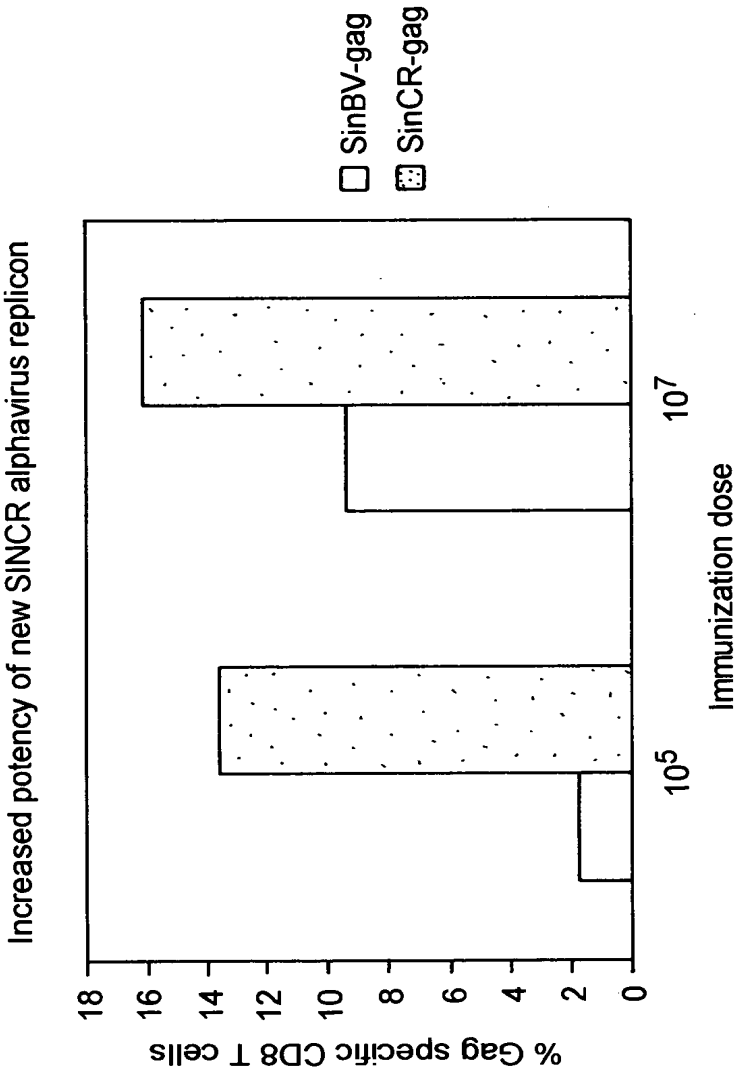


FIG. 4

DC+ SIN vectors target immature human dendritic cells

immature → mature

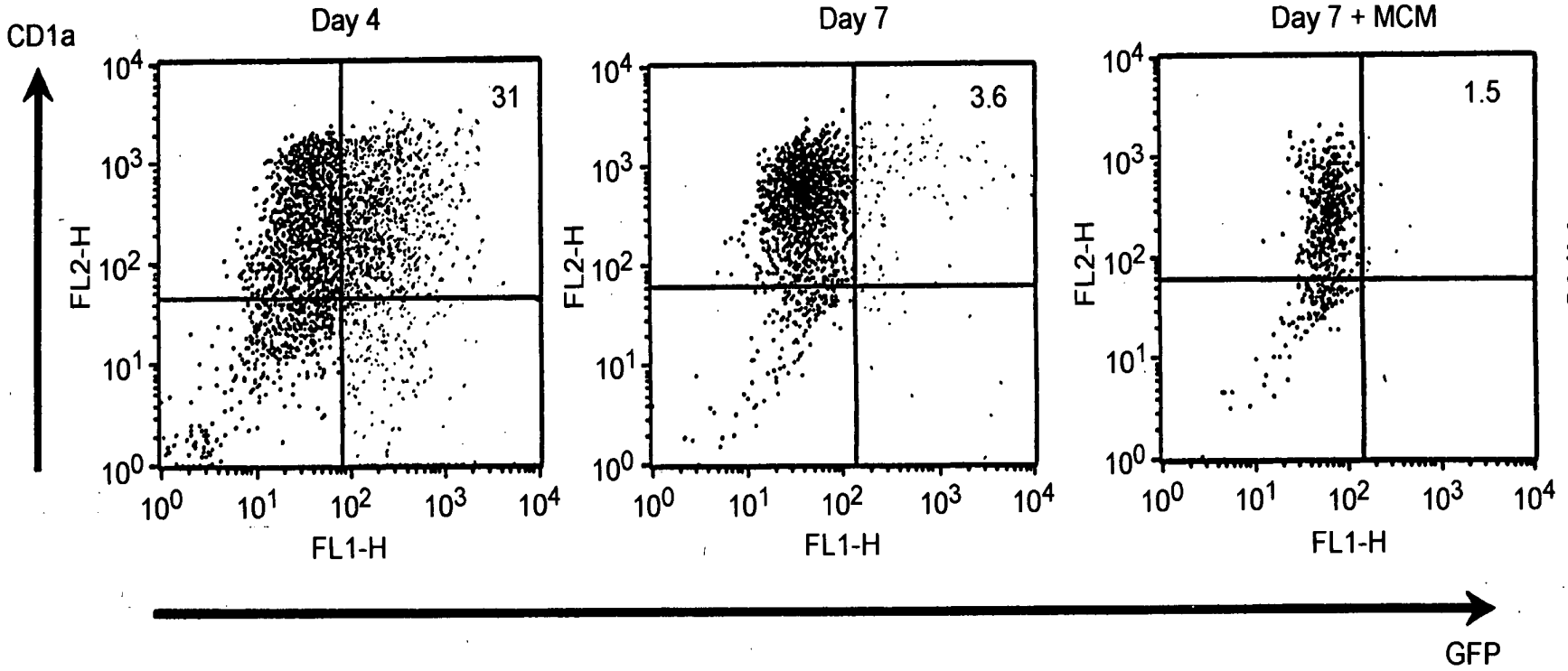


FIG. 5

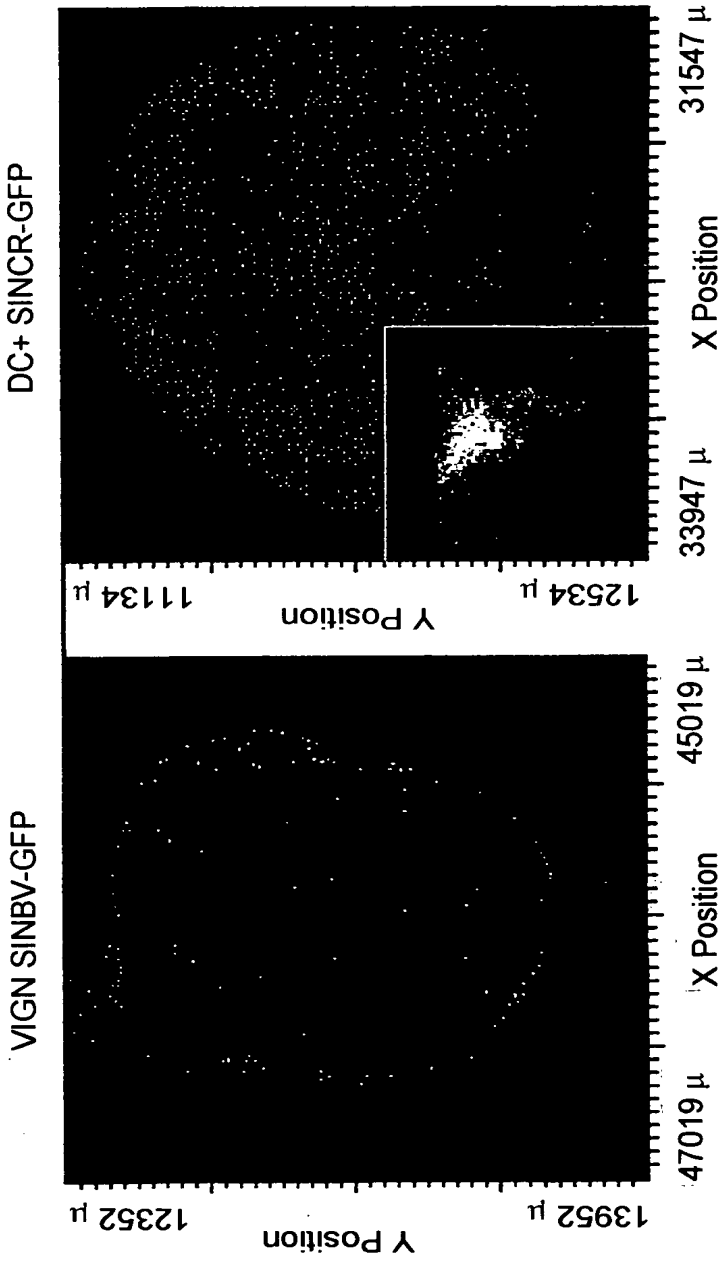
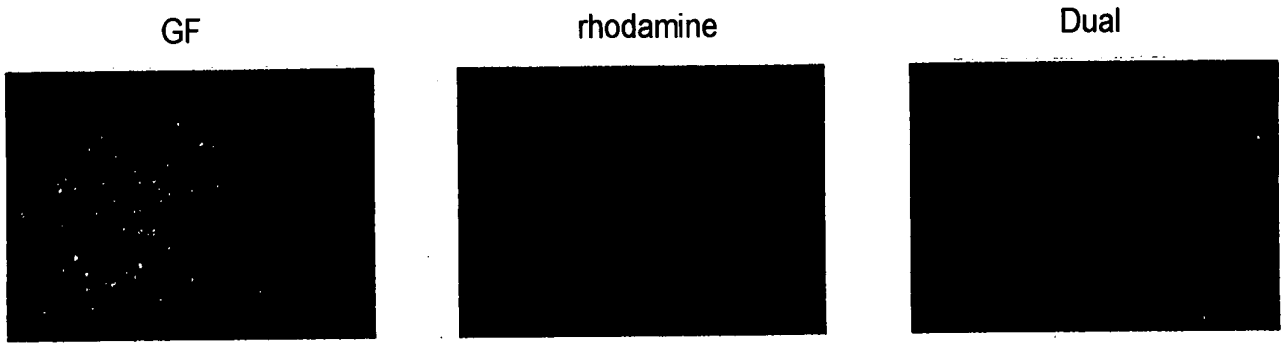


FIG. 6

Trafficking of alphavirus vector transduced DC to the mandibular lymph node



x20

SIN-GFP vector injected intradermally, with rhodamine paint applied to skin

FIG. 7

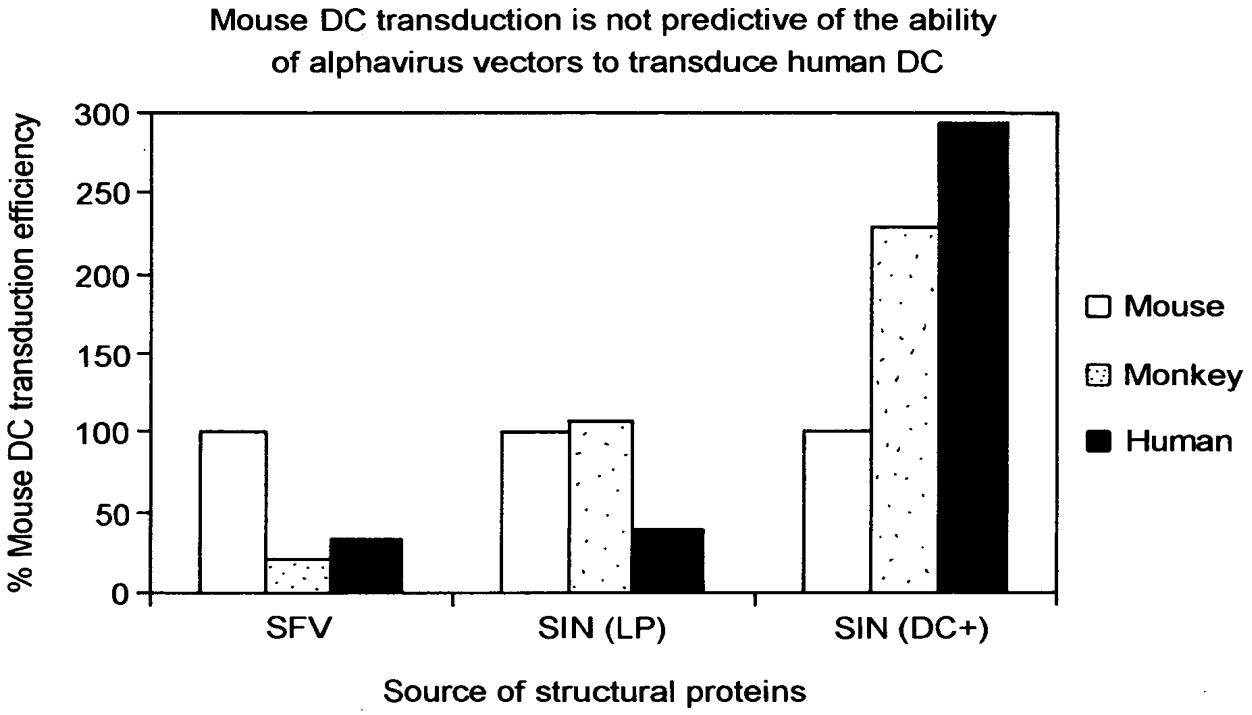


FIG. 8

Alphavirus vectors can induce DC maturation and activation both *in vitro* and *in vivo*

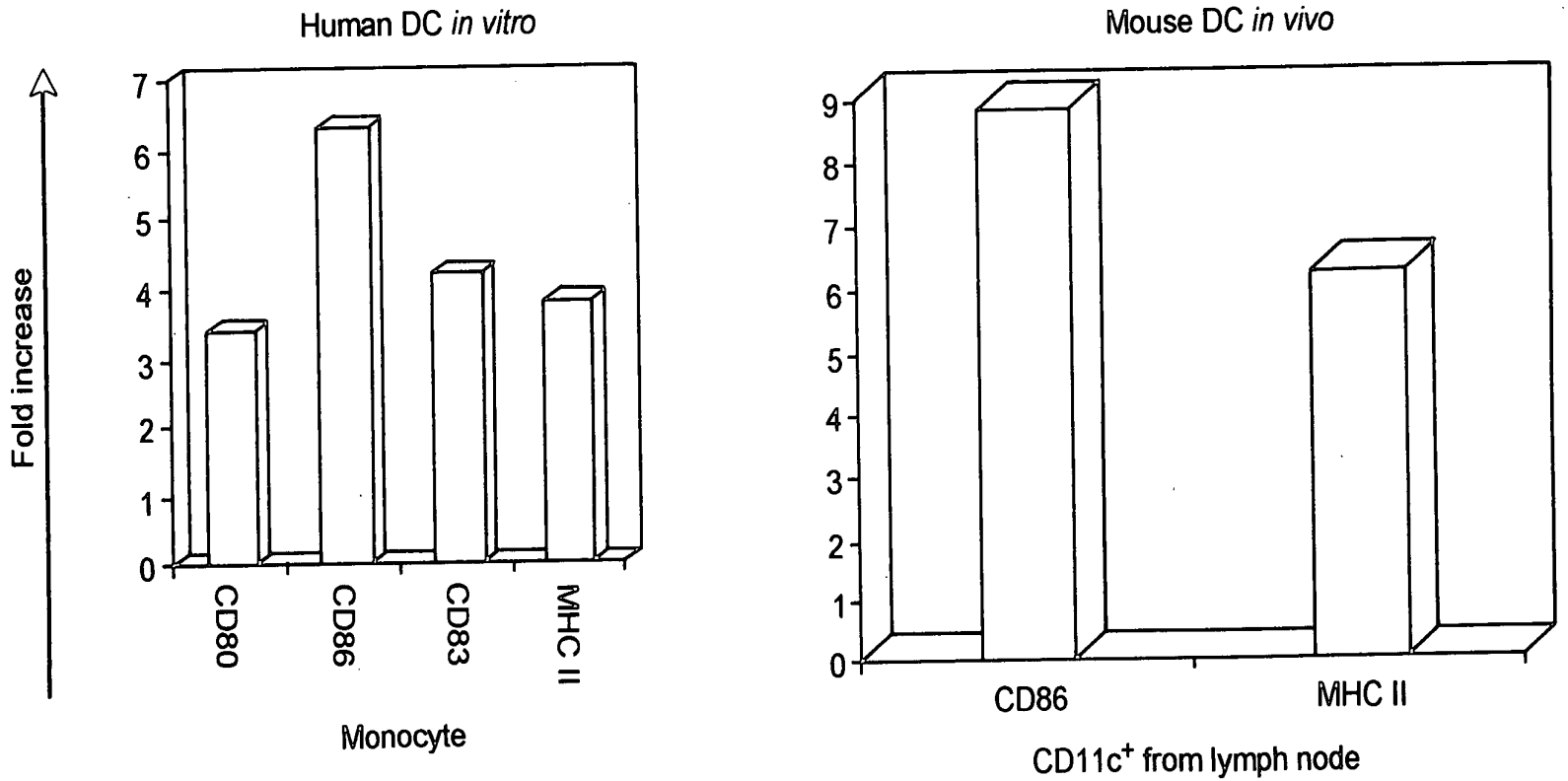


FIG. 9

Adapted alphavirus vectors can be used to assay antigen presentation and immune stimulation in vitro

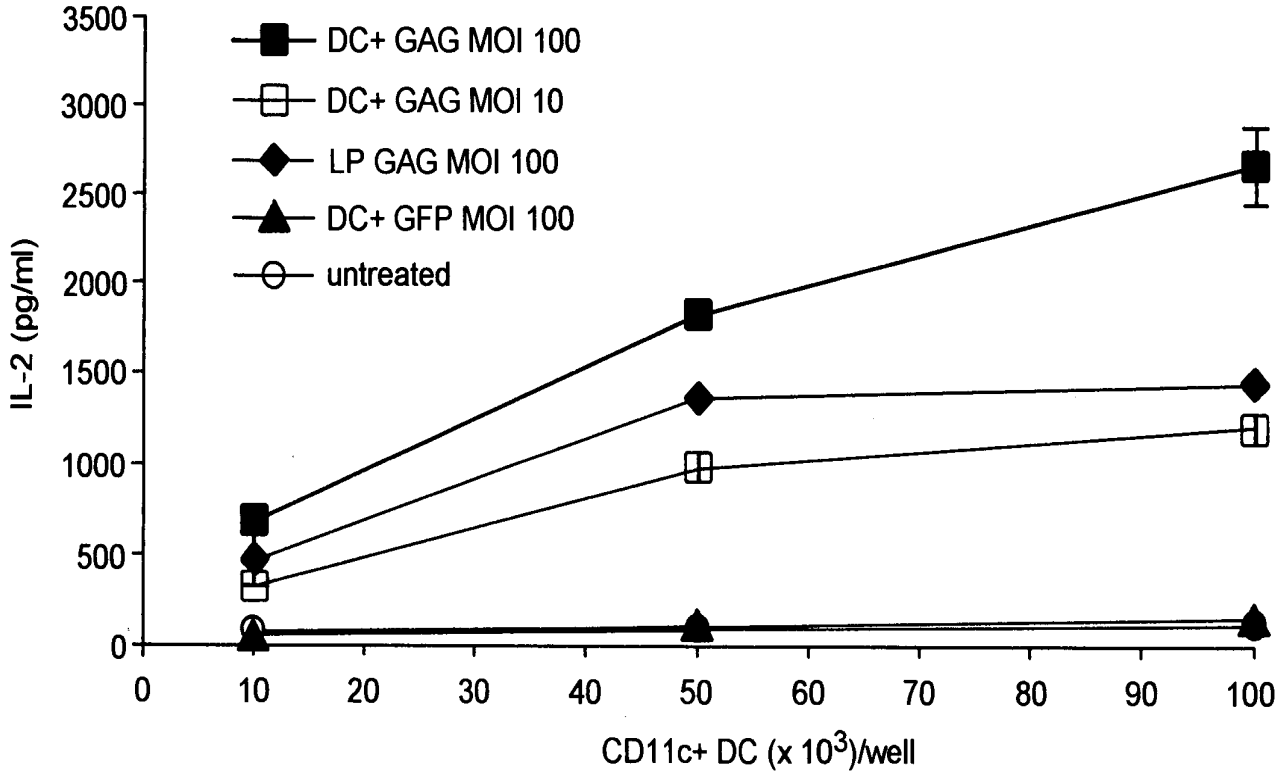


FIG. 10

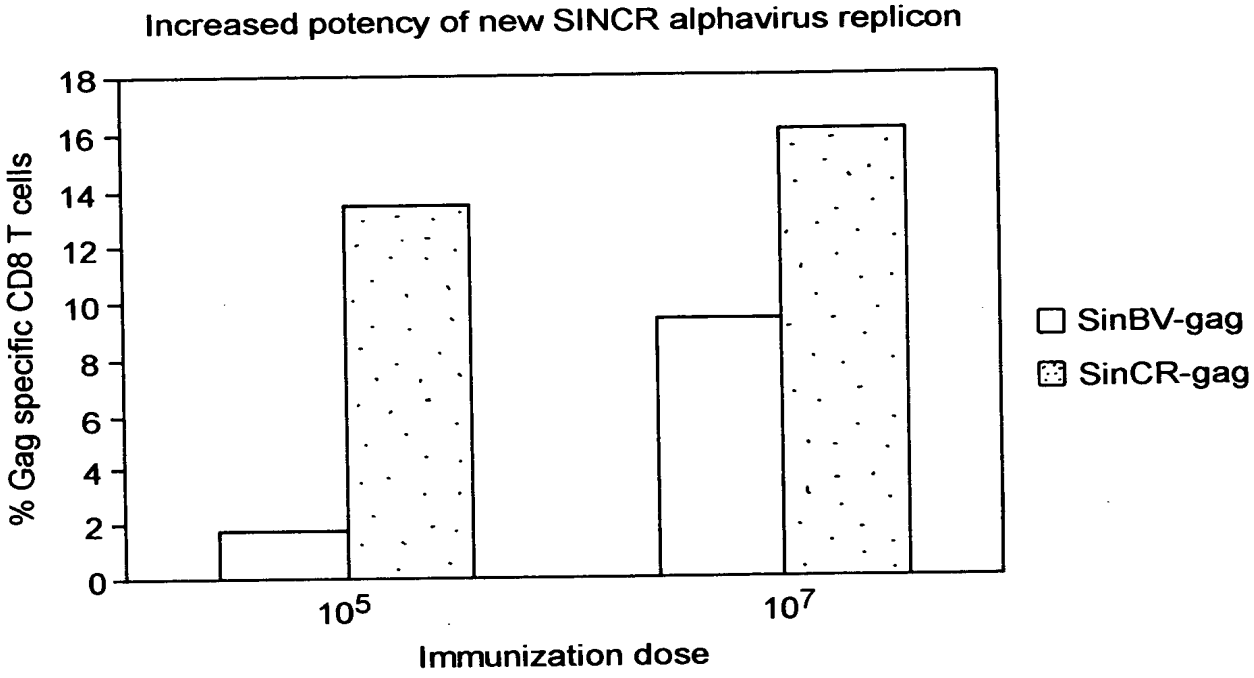


FIG. 11

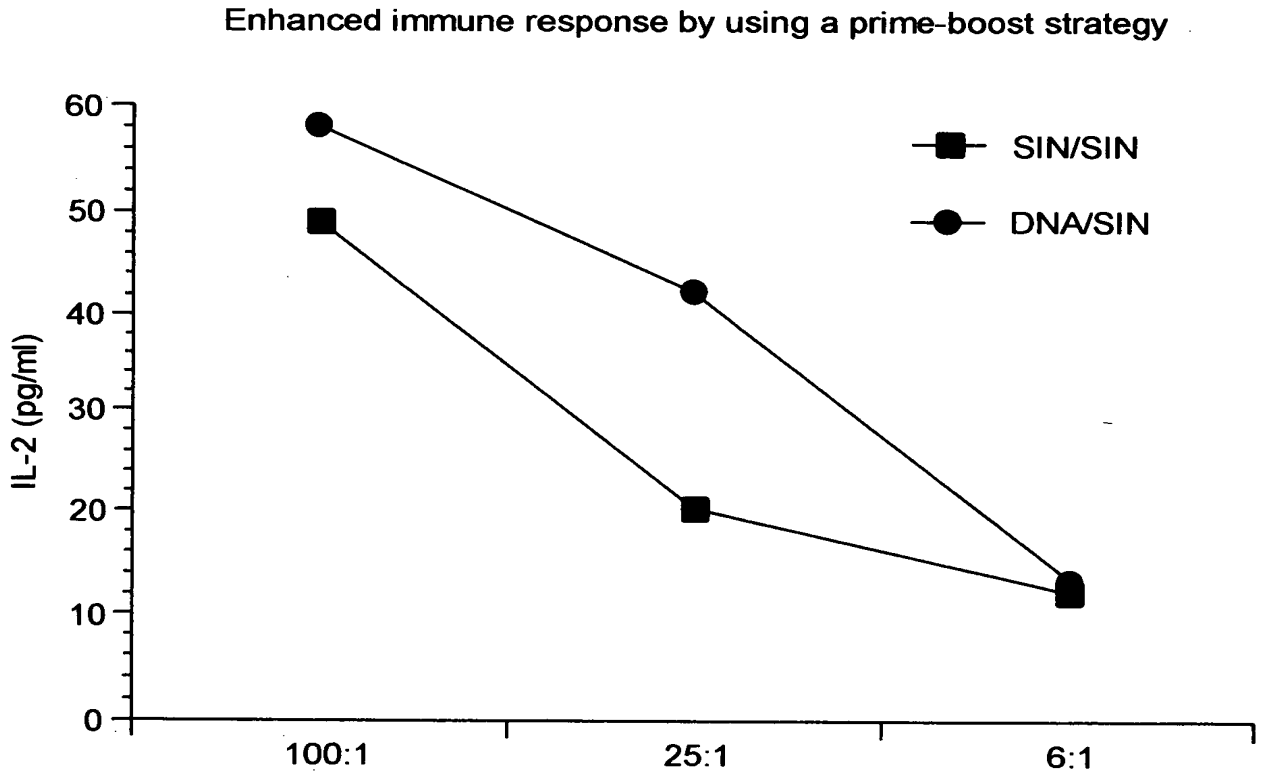


FIG. 12